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MARCH, 1985

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Subscription 1986 5 19 von 35 - Armedia Si per land into Consecut 511.25-- 1 year.
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Water for (Add, New 20), Addyle March NY 119214052 End; 51051500 2005 2015-0018-0411. ISSN: 0749-3851.

VOLUME TWO, NUMBER THREE

NAZI BBS A CHALLENGE TO HACKERS

One of our correspondents made an interesting discovery last month. She found the telephone number for one of the computer bulletin board systems operated by American Name. With this number she was able to logger and get the information that the media has lately been all bugging about. New we are

prepared to talk intelligently on the matter.

For one thing, this bulktin board is an Apple running Network software. There are only about two dozen missages posted on it. Only people who pay \$5 can post messages to use electronic mail functions. The system is not used very often judging from the frequency of the messages. The people behind it seem to have no interest in changing anything in the software on doing anything irregirative withit. (Example: on most Apple bulletin boards, the "B" command gets your list of other bulletin hoard systems. A; through of the list, the program prints. "When rufting other systems, because to tell themabure [name of heard]. This message can easily be charged. The Navis use the "B" command also, except through the list is not a list of hulletin heards, yetheriding of the systems "message or the only of it.)

There seems to be little or no attendance by any sysep based on zero clinicavailability and no replies to all kinds of feedback. "O" files exist islanded on Apple boards, "usually used for storing large articles), however one of their requires level? access. Or or kinst, that's what it says. The file in question is a fixt of task or realizate, their infollowers, etc. We are convinced that no such file exists, at least not their? When requesting this file, you are note: "Here is a fixt of face to think there?" Third oean't seem right. Either you're allowed.

to read the file or net. In this case, you're allowed to read part of the file and then suddenly you aren't. It's almost as if the file simply contains the above statement and anthing else. (Infortunately, the mode never picked up on that.

Our point here is simply this: you compute that kers and phone phreaks that are reading this have the ability to uncover and analyse circumstances in ways that most people can't. Some of you have the oblight to oxigence touch touch by our. A few can tell where their calls are going by the sounds they hear. And still offices are able to get into more than a few major systems and find the interesting staff abrood introducing. There is a very definite need in this world for sour intelligence. Every authority figure into stone would like to get a piece of your abilities but very few are deserving of them, besides, who really enjoys stiling out?

Think of all the events going on in the world today. When all phone times to Polond are cut off, use your tricks to route through Belgrade. Then let the press know that you can get through if they care. Track down interesting people in South Alacs. El Salvador, the Soviet Union especialty in times of orisis. There's no reason why you cannot attain the same respectability that a harmadio operator has when thing you despendie. We can all still have lots of line, and at the same faire news some municains.

The Nazivane's start, II backers can underset a thing or two that not only else knows about, we'll be on the read to finally being appreciated. Let us know what you find, But be careful out there.

The mambers for the Nezt boards are 214263.10% and 9195739898, If you would blice a full printers of all of the recompes continued on those boards, read \$5 to 2000, Box 152, Middle Island, NY 11951-6752.

are you a phreak???

by Bob Gamma

From the more jokeline caller to the telecommunications wizard, one can find phone folks at various levels of the phone kingdom. These are not definitive boundaries, for even the most knowledgeable pareaks occasionally revert to primitive tactics:

The Dippy Dialer. The person who got a Zygot Dial-A-Joke mamber, from their little sister and is forever trying to get through the busy signal which other Dippy Dialers have caused. Not to be totally ignored, since it is this person who keeps the entertainment lines in husiness. Even though they do not know the difference between the prefix and the area code, they are the only people that find the jokes to be humorous. This brand of lowlife makes prank phone calls (sample; "Is your refrigerator running? Then you better go catch it?") and has been known to run up his parents' phone bill on long distance calls which he thought were local:

Conference Brail Loop Idiot. Has an interminable list of test numbers, WATS goodies, other phreaks' private numbers, and searches endlessly for working loops. Known to (ab)use the Altiance Teleconferencing mechanism. Typified by playing the "info exchange game" and dreams of the day that he will have his own phone line. This creatuse also calls the phone phun lines, but overstacks SPC and MCI trunks. Also enjoys leaving lengthy disconnects on other people's answering machines.

Amateur Phone Phreak. Has 16 illegal extensions with much tone and homemade hold battons. Collects telephone directories of cities he can't spell or find on the map. Also accumulates Bell paraphernalia like pay phone instruction cards and stationery from the security division for searing his friends. These trischievous types wire coin phones to always

refused, harass teleo installers, and raid the central office trash containers for research material. Has the cheapest measured service line, but with all the custom calling features? Collects coin phone refund checks from the BOC's and independent teleos, including 3rd rate companies like GTE. Famasizes of working for Ma Bell someday.

Phone Phreak Extraordinaire. Has a key system for his 4 phone lines, of which he only answers one. Has a pager, but still is impossible to track down. Charter subscriber to 2600. He knows every free call there is and talks to the East Coast phreaks not so much for phreaking but to laugh at their accents. Dabbles with computer systems, but has no respect for its security. Can answer any question about the telephone except why he likes it. Has at least one 3-slot pay phone proudly displayed on his wall, and is the only person with an appreciation of independent teleos, step-by-step switching, and divestiture.

Phone Phreak Emeritus. Retired from the service after getting busted 3 times: For Sprinting across the country: For violating probation by blue boxing (teleo security confiscated his blue box); And finally for backing COSMOS. Has no phone line at all, as he is paramoid that the temptation would be too great. Tries new hobbies such as needlepoint and stamp collecting in order to lessen phone phreak withdrawal pains. Mediculously avoids breaking any laws: drives 55 mph on highways. This nasty streak of morality could probably be cared by giving him a butt phone and locking him in a feeder closet which contains 200 unrestricted dial tones.

Where the you fit is? Tell your friends where they belong. Then change your phone number, quickly!

HOW TO GET INTO A C.O.

by The Kid & Co.,

Having spent a loc of time masking outside the CO, I decided it was time to use what was mask. Well, the first idea that came to mind was to try and make my own informal four. This was impossible due to the magnetic lock on the door. So my next thought was why not try to arrange a took legitimately? Who would expect a phreak to not that "?"

A call to the husiness office started one on my way. They in ruro gave me the phone number of the Public Relations people, who told me to send a letter on a primary switching office in my area. I anxiously waited for several weeks. Then one day I received my argent phane call from the teleowhite I was out. Thinking it was Bell Security. The came nervous. I called back but the person who called was out. So I had to wait, Sure enough he called back. I was very relieved when he informed me that he was calling aheat the too. That requested, I hers also showed to find that he should like a reasonable horsen being. We worked out some details and set up a date for the four. I now had to select the group to go with me and prepare some questions.

I could bring up to 10 people on the total, My obvious first choice was my obriend. The Shadow, The real problem was who else could I bring? I did not want to take a charge on sentenne saying two much and thus creating a problem. On I chose several others, sticking to people who were just interested in the tom because they wanted to know what the CO was, but weren't smart enough to ask, emba contains a meeting.

The Standow and I spent several hours preparing questions to get the maximum benefit from the tour. We found that those few hours we spent preparing ourselves were well worth the time. We stanted with simple questions to which we already knew the answers. These would lead to the more complex and specific questions, without revealing our true identities as telecommunications habityists.

After weeks of waiting, the day of the CO tant arrived. We were ready? Notehooks in hand, ready to record the commentary, we drove the lamillar. route to the CO. We looked no stalgically at the doup sterand thought, "No, not now, later." Upon arrival, we were forced to wait outside white our guide, the System Manager, was being notified. He finally appeared and greeted us pleasantly. Much to enyom prive, he did not look like a standard teleo employee. for he did not wear the obligatory flaunckshirt. We entered the building and took the elevator to the switching result. Hook central of the situation by RS inglour guide while The Sharlow copied down anything he could find written on the walls, etc. We were shown a #1 Crossbar Toudenband the ESS#1A, which were co-residents on the switching floor. We examined the hitting tape drives and asked several questions as to the nature of the tape. After 20 minutes or so on the switching floor, he took us to the floor where the wires came in from the outside. While on this floor we also notices to 75P5 machine, of which he had forteknowledge, sage "that's AT&T." After asking a few more questions and taking more times, he gives me his number and fold us to call him if we had any more questions. We left our friendly tool goods and returned to our car parked conversiontly by the disrupster and drawe rift',

Some Facts

The four was very informative. We find several miscoscoptions cleared up. The first and probably most important thing cleared up by the four was the anytiery of the builing types of calls: 0°, 10, and 2-digit members out of your best calling area. In other words they only record the following types of calls: 0°, 10, and 2-digit members out of your best calling area. In other words they only record the numbers that you or someone clear with have to you for (1×800, called calls as well). The tapes are then sent to the billing office which handles the billing for both the local Bell and AT&3. According to our guide, the ESS does not keep truck of every digit dialed. This is not to say that it can't be done, but those it would be impractical. His CO handles well ever a million calls a day, and if it were to keep track of all the digits dialed, the storage requirements would be remembed us. Does the ESS print out a feel of exceptional 1+800 callers not yeldy? The answer is no, the ESS chass out But the billing tape does contain records of 1+800 usage, and that type of processing may be done by the billing department, not the CO.

During the tour, we were introduced to the ESSVIA. Our ESS is running a.V.? generic program. The #9 peneric program is the revision that klentifies the number calling you belone you answer. It consisted of two equipment racks, each 5/200, full of printed encout hearts and R.Ps. All of the heards were push in pull-out for easy servicing. One reight that thou the description of the ESS that we have given that adoes not require much space. The ESS processor does not require much space. It all, but the equipment that interfaces the local leep with the sail processor requires quite a bat more. Unknown to most, the ESS VIA consists of two independent processors that are constantly the king each other. They perform diagrantics if discrepances of occur. This is a technique similar to

the one used by the space shuttles' computers except that it is more reliable. You cannot shut down the ESS and put a whole town out of teach with the world just because the computers don't agree. The ESS is programmed we diagnetic tape drives. The ESS stores the information about your phone line (special features like call waiting, call forwarding, speed calling, touch or rotary dialing) on two massive hard drives.

Fiber optics are in use! As my group-discovered, they are being put on poles all over the place. The cabling is called Light Guide and is made by Western Electric. The transmission system used is called Si C-96 (Slick 96). This system carries 96 simultaneous phose convenations on a single optic fiber. Our goods unfortunately did not know more than the name of the system and its capabilities.

How You Can Meet Your CO.

You probably would like to know how you can arrange your own CO tour. You be spent all that time staring to, but now you're willing to meet all those nice people isside. The first thing to do is to find a group to go with. The people at the seto are more likely to let a kigit organization viset, rather than just a candom group of people. Having just one or two people show up will really make them to species. Be sure to take along at least one responsible person to make it look kigit. Try groups such as the Doy Seoms, in Explorer Post, a where class, a componer club, or simply come up with a legitimate sounding name (not the Legion of Doum or the 200) Clubi. This group should consist of people who kigitally have an interest in the phone system. The Audubon Society might seem a little out of the ordinary. The group should be interested in electronics. A board group will want to nowe on quickly, despite your interest. Don't take only phonely, at the telon may get suspicious. The person who attempts to set up the four should also have no record with Bell Security, as a routine electronic leave to the look and part of with Bell Security.

After finding such a group, you should contact the local telephone company's public relations office. Companies are worried about their image, for people tend to origine an anti-big-husiness bias when they receive hig bills. They will jump at the apportunity to combat this prejudice, and will do their unlost to these a tour, even over the objections of workers. Set up a motually convenient time for your appointment and ter your group know.

Proper planning is the best way to maximize miorination gathering. Questions should be thought out in advance. The questions should start and con-rechnical gradually progressing toward the technical as the guide fets down his the guard. Be careful out to make the questions obviously phreak-oriented. Ask about roomoon knowledge and general interest subjects, such as equal access, the ATAT split-up, liber optics, and just how does my coll get where its going. Remember, the guide thinks he is showing around another group of ideats. Questions relating to phrand should be asked innocently, and with religences that you have heard about this terrible, drendful subject in the popular media. Questions about blue howing should quote a ricks about purposely arribes; and "\$12,000 calling care hells delivered via UPS" news stories. Remember, you don't want to put him unit's good. For benef results, spread your questions around for trustworthy friends to ask. Dun't be string for you don't want all the attention.

On the actualitaly of the four, because to bring atong notebooks. You will want to record this event for posterity, and for your platiends. If the guide constitutes on your note taking, just say you are guing to write a report for selsoil or an acticle for your club's newsletter (searchs familiar). Take down any test or other numbers you see on the wall, but try not on "homeow" or you could be in high trouble. We have heard, third hand, of some phreaks on a CO tour who took who tover they could down their share, etc. After the tour they were taken into a room where they were forced to dispurpe all they had phound. It isn't worth the risk to stail.

On the taun, conduct yourself grouperly, as you stood, wond to stand and, Resist the urge to answer either's stupich use stions yourself. Do not show off knowledge. Only gently prod the tour goods on subjects you are interested in. The feer guide will usually give you his number for further specifions. Be sure to keep it. Make sure to have a good impression so that fellow telecommute atters hebbyists our tour the place in the luture.

These basic techniques van oc used to get a tour at almost any location. Other places, you might consider are local AT&T. Bell Research facilities, GF. Northern Telecommanufacturing plants, or any computer center. On a rour conceasily pick up information that is difficult or impossible to find acherwise. At the very least you can get the type of switch your CO uses. For the most accounteinformation on visor telephone system, go right to the source, your local CO!

ABC

MNO 6

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The Next Step in Custom Calling

Most Austin (Team) telephone users who are harmsed by obscene on directioning phone calls now have a way to truce those calls. Southwestern Bell is offering a fourtement originated trace" service for most Austin casto more as part of a test marketing of several selvanced oustom colling features. The program is collect custom calling services plus and Austin is the first city bresked up to it by Southwestern field. Phonogostomers with numbers beginning with 5 or 5 - nearly 60 percent of all Austin customers - will have the service available. The following varyings will be offered.

 Container originated call tracing. Person users can immediately distanced to entimentically trace harassing phone calls. Upon customer request, Southwestern Bell will notify law enforcement authorities of the traced gloons number. Bell. however, will not disably the identity of the abovent collect a the photographents. Each tracing of a call will cove \$5.

 Selective call reportion. Calls can be conted to a special its incling to explain. that calls will not be accepted at that time. Costomers can also reject subsequent eally from whoever called last. It is not necessary to know the number. The cost is 25 cents to establish in "twice) list" and III cents a day for maintaining the list.

 Selective call for entitives, becoming calls from three-designated numbers can he sent to another remote telephone member. The gost is 10 pents for each tingn90.1.

 demonstrate re-coll. A contenter can entitle use the high person who called each; had number the customer milkel. The cost is 20 cents for ough use.

 Distinctory ringing. Cally from these designated numbers will ring with a distinctive sound. The cost is 25 cents for each use and 40 cents a day.

"There's no need to sign up for anything," said Heb Dunbar, Austin devision manager for Sombwestern Bell. "You just pick up the phone and dial the right

code for the feature year want to use. It's that sample,"

Southwestern flell with after the services for one year in Austin to determine if they should be othered systemwide."

"If this service is usude available throughout the country, it could be a major deterrent in ekseene in this atening calls," Danhar said. Tew custom calling system will track observe calls only if shey in ignate from a phone in the service area. For more information, give a call to \$124999010.

Industrial Espionage Seminar

Wall Steel Server

Hackers and phone pluraks and what they can do to your computer and your baseness will be one of the features of the Industrial Esperance and Courserrecosures semenar to be hold in Florida. April 25 and 267 [985].

The objective of this sentime is to provide the participants with factual. information in lacinity terms so that they can evaluate their company's vulnerabilities and begin to develop protective systems to guard their data, proprietary information, and communications

For more infectionate, him Ress 2J 36183 (MUX) or write to Bloss fingingsing Associates, Fig., 7900 Hope Valley Court, Adamstown, MID 21719.

Kenyan Pay Phones Prove Popular

In the first phase of a project to provide allowhalk relephone service to the masses of Decuya J. 500 pay phones are being installed throughout few Tesas sized

Judgerg, from the long times that tourness the pay beently, talking-kels of it is very anuch in vogine. The seeme played out on any sky at the row of public phones. outside Nairobi's reain post office is repeated in the various neck sand enunits of this flast African rations

A railer spoins and personal directory in hands exemples the booth. There people patiently wait for their min. The conversation grows larger; so does the lint. Some there are 6, 7, then 10 people standing in line, all covering specialists glances at the talkative offender. Some Keityans have taken to calling this at fliction "telephonitis."

Sinten Gaelinka wax-samber Kin line recently on a side the post office on the wide thoroughlare of Kenyatta Avenue, Prenng over the brook of the long staffening isthers, he stated on the bookb's occupant and then rolled his eyes in evaporation,

"What is there to talk so long about" by asked to no one in particular. "What is the remance with the telephone? I came to make a quick tall and now the whole limely been is spent waiting for the end of a conversation that probably has no known significancy,

This Month's Troublemakers

A Marquette (Muchipan) man who each mittee say devised and need a scheme to reade long-distance releptione higs has been charged with 148 counts of wire timed. He made 112 calls by drating 980, a musber, used by Michigan Bell employees to test equipment, and then "applying multi-frequency tones or the line to callwhatever telephone number he wanted," voites the indictment. By using the three-dipit conster, which "was not generally known" about by the company's caseomers, name of the colla were resembled on the billion computer

The indicurean absolubles that the man plaintified constast blash Hinser, The

untergraphs phreak of the Great White North"] made 28 keeg-distance calls that were fraudulessly charged to Martin Marietta Coop, through the corporation's Wide Area Telephone Service (WATS) line at its Orlando, Florida aerospace

The indictment for their accuses him of making eight calls that were charged to individual customers of LDX Corp., a St. Louis. Mrs., correspond that stills longdistance gittene service.

If non-virted, the offender faces a maximum penalty of 740 years imprisonment and a \$740,000 fine.

housisted Pres

Three teenagers have been charged with using hung computers to make line: lung-distance telephone calls estimated to be worth hundreds of theorems of dollars or mine.

Police spokesmen said the youths, all from northwestern suburbs of Chicago, have been thanged with their of service--a felony regarding the long-distance calls. They have also been charged with illegal are of a computer, called 'inching'. a misdemeanor.

The tomogers range in age from 14 to 15. They penhably will master probation breatuse none has a driminal record.

The phone companies might suck restitution from the youths' generals.

The partner of "Echo Man," 16, "Three Rocks," 15, and "Hode Sam," 17, probably thought they were in their cooms doing homework. Instead, the Busfingame, California tensagers were programming their Apples to scan the Sprint telephone-service computers for said access numbers, which they used to make free calls. The backers then " "bed the numbers on an electronic builtetin." board, so others could show in the spoils. That was their undoors, Local police, who had been monitoring the bulletin board, raided each of the hapkers' homes and found enough evidence to change them with felony their and ware found, they the police those not to prosecute if the youngsters agreed to pay Sprint for the calls and write ill-page papers on arganization, on less—on the evils of computer

A Mechanical Hacker

When Clark Diff, show terr of samuation for the Cay of Payetteville, N.C., came to work, our day recently, he thought an intriguing fittle mystery on his bands: despite the fact that his department is locked and described each night, switchbeard computer records showed that more than RD telephone calls, most within sectands of each other. I had been planted overnight from two telephone extensions.

Burglars? Electronic pranksoers? Turns out it wasn't an intruded as oll, but two Coest-Colo machines trying to plant home. Both had been equipped with computers to let the level that remot know when it was time for a refet. "The Coke attachings were calling the computer as the Color company and for some reasonable comparer yest wouldn't suswer." said Dill. "So the machines just kept calling and culling and calling,"

Redemption for a Hacker

But of the steken grand

A 15-smired poy who mice broke imp a bank's computer his cased his conscience by helping the policy to crack a computer code that lad to evidence sought in a child see abuse revestigation, the authorines say.

It sook just 45 minutes to operavel what the pulling lad puzzled over for mearing atouth.

A police spiritismum said the computerized any units appear to be mattessismals. of sorts. But he said he did not know whether they would be oseful as evidence.

I.R.S. Computers Screw Up

Long Island Streeting

A \$ DBL million computer system that was supposed to speed the processing of Educating one tax returns by the Internal Revenue Service has developed standing globles that many taxpasets regarding refunds will have to wait about 10 days longer than last year for their checks.

UR.S. officials said there have been numerous houseldowns of the Sperry Univer-1 100-484 conspected system since it was invalided best fall in the L.R.S.A Miregional. principality centers. "Anytone you put a new system in, there are going to be problems," said Bah Hugtos, director of the LR, S. 's Hotsville (New York) service senter. They are not entertrophic in nature. But they are irritating as hell,"

Ringhes said. "I'm convented we now have a wolkl system." Moments later. however, he was autounting yet another sumpower breakdown over the other's public siddress system. "A few renoutes agos we lost part of the system - but not the Wainframe." he said.

Computel Does Exist

Compared, a new plugaker; backer and technology priented newsletter, backers touted according to John Reynolds, a Companied employee. Recently they have here, receiving complaints because of not publishing after a massive relaymising ampaign. Reynolds and that the first issue will soon be available. He blanted a browen printing mass for the delay and a shortage of fands for the disconnecting of their tell-free munter.

THIS MONTH'S LETTERS

For the 2600 reading list:

The Condog of Technical Information, available from Bell Communications Research is a feet source of information on available technical manuals.

LESS Mode. Good, but *1% expensive (wouldn't seam all the fone phreaks to

her it...). Better to get through maching.

loc), A.E., A History of Engineering and Seatten in The Bell System: Someking Technology (1925-1975), Bell Laboratories, 1982.

Hansher, Danald H., Communication System Engineering Handlook,

McGraw Hill Book Company, 1967.

Both were 671 J811 on the Dewey Decimal System. The Bell bank mentions that there are other backs in the series. The Communications Systems one says it is updated periodically, so it may have a more current edicion. The Handbook says it also has "The Lineman's Handbook" by Kustz in the same series. Shuh are extremely good and law looking into. Tons of technical (almost 500) data. Much. better than these "what's the phone company doing with my call? books littering the kicklic sections of the library. I suppose a college library would be on even better place to kink, especially one for a college with a good electrical engineering.

Lake found a great nine page, small print article on blue boxing and plureaking. history in the June 1983 Expaire on page 376. Desirably published in October 1971, it provides an excellent background on the state of phreaking in the slaties, with interviews of "Al Gilbertson." Fraser Lucey, Joo Fugussia, and Captain Crunch,

Dear 2660:

I have one question about proofs companies. When using Sprint to call long Bistance, how can you tell if the company trace? Does Metrophone trace? What about Allnet?

Also, I diolate the gumbers in Columbus. Ohio, When the other side answered, Locatived some very awayee noises, mailly strange. Please reply.

Dear 2690:

Exactly what can the LD services do if they couch you using their systems illegally? I have beard they can take your whote system and soft it to pay them back? This sounds a little internal to me, What if the system isoft yours?

What is the criminal term given for plottaking if you are just using the LDS to call up a \$85 and not a DoD computer? Is it as fled theft by were frauct? Hapafully you can answer these questions...

look sure from nave to some wai also when crossing state lines. If, my, you call a has distance service using a local access number and commit fraud, they can get now on a look out have with the logic that the computer you defended is in available stare, even though you didn't actually will that other state directly. Dreson town, n ire fråmi is what they bit yag with. Some mores, the California, are roose severe. In Alaska, is as diegal 10 "deceive a markine", With regards to long distance composition, we assume that they ALL trace—ar negger) you arrang the rame. We As know when it's more likely; when using a 959 monther, when making lengthy. rules out the same coult from the runns number at the same time of day, when everyone with world section to know them it, out. A good phone can make pages completely weeless by recoming, being augment while, and brief when provided, Nouses are that really a class to a trace. There corresponds have been around hone enough to figure out have to the riben traces makes are probably just poor contact tions or fasher equipment. Keep in minet that it's also a lot color fund champer) for the companies to simply linen in to an illegal call and wan for severaling information to be dropped. We donly, sharply that this would hold up well in cours. The companies that really care WHO you sail but they are innecessed in linking as mean people ingether as possible. They may intomisine the called party and revealing the name of the present who called at a certain time; even though there's non a thing they can do be them if they skin't talk thing is a very imperatary face). If necessary, they can take equipment, if they can prove that how. word to commit from - is down't matter who is belongs to. And they can find a way to keep it if you can't pan them has k for "pervices rendered". When playing the long distance gave, recurs; it a mass. The consequences are just too work about. Deur 2690;

Mike Salema's untide, "Getting in the Back Door," [2000, page 2-2] was well written and informative except for the part on UNIX.

Horizont flux the author has a basic "feet" for UNIX yet he probably only has had experience on one or two systems.

While UNIX may be "wreply" compared to other ejecuting systems such as the POPS-20, it is far from having "some pertily good security measures," One of the original designers of UNIX, Denote M. Rijebie, affectionately known to some asthe supremue "supremiser." once said., "... HWIX was not developed with seminity, in

any realistic sense, in mind; this fact alone generators a wish number of holes.")

Mr. Salemo refers to recommende unlast "who", "sync", "Pelp", and "learn" as accounts. Since UNIX is my favorite operating system, used by many of the Bell operating companies and similar to COSMOS. Thave had much experience on over a dozen different systems and I have never encountered the above as accounts. Granted, though, it would not be hand to outplement; my point is that at is

The privileged accounts that mensurplys, UNIX systems are "root", "bin", "sys" and finding, Others such as "games," and "murp" are also on most systems. The former usually has no presword or a simple consucul is group for "getting your fund in the from door." The latter years a special protocol and contrare files with possesseds and telephone numbers to other UNIX systems. The most powerful account is the "rock" account which belongs to the "super user". It can also be

attraced on the "50" cumutand as mergioned,

The best part about UNIX is that it is set up so that anyone can view anyone clase's files. For example, the lowest user in the UNIX hierarchy can usually type "cat /etc/gassis d" and the contents of password file is dumped with the passwords encrypted. As exeminant, this is good for looking for accounts without passwords and finding our usernames. Also, the passwords are encrypted using a modified version of the DES encryption atgarithm. It is possible, if you know the key fyes, there is a rather simple default (one your imagination) and we all know about massive documentation on-line along with the source code for all the cummands." Also, UNIX is programmed in C, which is an ewesome programming language. knowing C is a prerequisite for any serious UNIX backer. If you know C and have the right accounts, you can easily modify the system to your likurg. Another plus for hardwise is that all MO is treated as files which opens up a Pundom's box of himfor hackers'

There are literally bundreds of holes in UNIX for the backer, I cannot possibly discuss them all here but I out planning on writing an article, "UNIX for Harkers". in the near (3) future.

Granted, though, UNIX can be semi-secure but most HNIX administrators lack the intelligence to realize this.

BIOC Agent 001

Dear 2000-

What a the telephone number for the NSA?

Mikhail Gorbacher

The National Security Agency, which nobody is supposed to know about, is one of the most recrease organizations in existence. Their main phone number is 30108086411 four new or provid that they link about in 301677 as well. When calling this mankey, you can ush for their public relations department or any other for that monter. By this main, for some reason which is completely beyond us, this number resides in an XY step office—one of the must primitive suitabling centers in excusence (see page 1-25). In this arm was for an intelligence agency to operate?

MCI, Sprint, etc. mass be controlled by MF traces. Any idea how they work? Phreaking apparimantes?

in actuality, the majority of alternate carriers aren't controlled by MF totals in all. Many natilise standard topoly-topes. What they do is store all of the digits used the has one is emered by the value ribre. Then, the company fundentine in the city for nera) the subscriber is calling to, gettin dial tone, and sends out the Edigit LOCAL Dunder. This is how they making to have longs ones - they get to the city by microwane or solution, etc., in other words, they amout AT&T. On occasion, though, the alternase companies' lines in other cities get that up. When this happiero, they are based less from ATAT and buckup, which costs then extra and probably recorner for the inventional good convection paremay get.

Muturally, if these companies are duding out on local manders, it impooccasionally he possibly for someone to dial INTO these your members. What happens then? Sometimes renking at all, Other times you may actually hear concernations. Anything's possible. One way to find our what a company's local monthly in a particular cap is to dial the ANI monther for their day after the food. oren code: New York City's ANI is 958. (Dial 958 in Blow York and your phone number is reed to you.) On a long distance carries, you may be able to did 212958XXXX and have a monday conf-

Mast Instrum our trained to hang up at the small of 2000 Herrz, Soundaines, though, it will drop to a dial tune in whatever electyou called. Tittedy tones can be weed on the distant digit toge, but wast piereal ramiy make "local") digit calls, timeilige II merce show up ion a hill.

Only one long distance service with know of responds to MF town will don't ITT. They also a special sequence of these towards at any that subfferent from AT&T. We haven't flowered to our sec-Dear 2690;

We October 1984 article to 2600 on writching centers: A L& 6 has changed the way it makes eatly

Without telling anyone, AT&T shilted from hierarchical centing to nonhisrarchical routing. See pamproph 19, page 8 of a Federal Communications Commission decoupers dated January 25. The FCC document is not specific but apparently ATACL changed the software that controts switching

[Note to all backers: Have you not cost anything different about the swetching of AF&T calls? Let us know,]

Apparently the FCC approxes of the new AT&T muting scheme although Albert Halprin, chief. FCC common carrier bureau, is confred that he was not told of the plans to change about of time. If AT&T had told Helprin, a lawyer, by might have siled a 100 page order to ATAT that was impossible to understand let alone rempty with. ATM Texacontives apparently decided that discretion was the hereapart of value. That the vestom was unlikely to crash if the change was made. That the less Halprin knows about the network the befor off everyone will be,

Hunter Alexander P.S. Implications of non-hierarchical switching: Does it reflect the new power of the microcomputer and the competitors of AT&T? Does it show a new egalitarianism has done to what seed to be called the telephone company?

If you want to read up on the old way of swaching with free tooks of his random. get Notes on the Neuronic ATRCL Setwork Planning Division, Fundamental Planning Section, 1980.

We're happen that found our about this. We'll see if we can figure out uses the ramplements in the

CORRECTION: Last page's story on COSMOS was not written by Firemonger but by Fire Manger. We regret the error.

The 2600 Information Bureau

Down: paded from Sherwood Forest II. Soon to be a part of the forthcoming 2600 phone book

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	202-456-1414	WHITE WOUSE	202-986-1880	STOCK BUOTES	800-525-7823	ON EXPRESS CURR EXCH RT
	202-545-6706	PENTASON	914-997-1277		800-424-2424	AN FED OF TEACHERS
	202-343-1000	EPA . WEEZ STATE TO STATE	516-794-0707	and the second second	800-525-3056	
	714-891-1267.	DIAL-A-CEEK	204-623-0150	# * # ***	800-525-3085	CATTLEMAN NEWS
	744-897-5511	TOMELY	205-641-2381	VOSCE OF CHESTER	800-424-9864	
	213-571-6523.	SATANIC MESSASES	THE 3H ILC	FOR DOMECTORY)	800-424-9128	DEFT OF EMERGY MENSLINE
		DIAL-A-SCMS		SPECGAL RECORDING	800-424-9129	IN SPAHESH
		SYNTHACER MUSIC	512-472-7934		800-424-8530	HOUSENS URBAN DEVLAME
		CEAL-A-POEK	512-472-9033	on your district on the state of the state	800-424-8807	. TRANSPORTATION MENSLING
	213-785-1996	LIST OF MANY NUMBERS	203-935-1511	MEERD EFFECTS:	800-424-0214	
	\$10-472-4283			WEERD RECORDING	800-424-9090	WHITE HOUSE PRESS OFC
		" I HSER 7 . 25"	512-472-2181	· · · · · · · · · · · · · · · · · · ·	800 - 35[1-5534	
		PICMEERS	512-472-9936	An A Paris	800-221-4945	
		DIGL-A-ATHIEST	512-472-9941	INSERT 25 CENTS RECORDING :		ARTS PROGRAM GUIDE
	212-585-0097	DIRTY, SET 1 & ELLEN STATE	212-976-2727	P. D. A.	800-821-8094	
		HOROMETZ -	619-485-9908	UNKHORN		AFL-COO NEWS SYC
	217-429-9532	DIAL-A-PROSTITUTE	619-748-0000	PHONE CO. 18STING LINES	800-424-9086	
	213-745-2000	JOVES '	819-748-0003		B00-230-5342	MATIONAL COTTON COUNCIL
	213-372-6244	JOKES	900-410-8272	SPACE SHUTTLE COMM.	800-424-9820	CITIZENS CHOICE NEWS .:
	202-458-1414	WHETE HOUSE	800-321-3052		300-404-5040	H.A.M. NEWSLINS
	202-945-2900		800-321-3048	UHKMONH	800-252-0112	USC NEWSLINE
	010-441-930-41	D32 QUEEN ELIZABETH	850-521-3049	UNICHONN	800-368-5667	BUSINESS LINE
		JERRY ORCHY	800-32(-3074)	UNEKÇMA	890-348-5814	NTL ASSN OF REALTORS
	800-424-9090	ROMALO RENGAN'S PRESS	800-631-1147	UNKAONK	800-368-5593	SENATOR HOWARD BAKER
	212-799-5017	ABC NEW YORK FEED LENE	213-331-0437	UNKNOWK	600-368-5833	AM HEROTAGE FOUNDATION
		WHITE MOUND ERESS	800-242-4022	SMCG REPORT LOS AMBELES	900-368-5844	COMM SATISLITE CORP
		DIAL-AN-EXCUSE	800-367-4710	SMOG REPORT SAN BERNOWD	990-36B-5500	COSMIURDATE
	800-882-1681	AT, T. STOCK PROCES STOCK	800-822-0858	CALIF MED ASSN	300-221-0228	HOA HOTLINE
1	Jan to	Head the Dist	"		MA NOT	

How to Use the Dial Telephone

To call a number in your own office:

Let's say the number is 254.

Remove the receiver.

Listen for the dial tone—a steady humming sound. Place your finger in the opening over the figure "2."

Move the dial electrosise until your finger strikes the finger stop. Remove your finger and allow the dial to turn back. Do not push the dial back.

Dial the figures 5 and 4 in the same way.

When you hear a burr-burr-burr sound, the called telephone is ringing.

If you hear a buzz-buzz-buzz sound, the called telephone is busy. If you hear this "busy" signal hang up the receiver and try the call later.

If you make a mistake in dialing, replace the receiver for a few seconds and begin again.

If you have trouble dialing, replace the receiver for a few seconds, then dial the Operator and she will help you.



DETACH HERE —— BEFORE CASHING

TO IMPROVE PUBLIC TELEPHONE SERVICE: Here are some of the things we're doing to improve Public Telephone Service —

- Public Telephone repairmen are patrolling the streets constantly to Insure quick repairs.
- We've installed new equipment to alert us when a telephone is out of order.

 2-17
- We've also added equipment to make Public Telephones more resistant to temporing and vandatism.
- *You can help too... by calling repair service when you see a Public Telephone out of order. We'll lix it fast.

 'And of course, there's no charge for the call.

М	PA	CN/A Number	Rev.	State (\$=Province)	WA	CN/A Homber	Rev.	State I#=Province)	NPA	CN/A Number Rev.	State (L=Province)
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8	uit	: 007 LIVE 35	10, 7	he Bahamas, Bermada,	AOMS D	теже керцезас	0489	isa, saa ruerto Mico (



The Cipher Disk

As invented in Italy sometime before 1470, it had similar quincentric disks with the exception that one contained a 'mixed' (scrambled) alphabet. Also, in sente of the earlier versions, one of the two alphabets was composed of arbitrary symbols in live of conventional characters.

The appeal of the Gisk lay in the fact that with it, ensightement and desigherment could be performed without carrying holky or compromising written materials.

The eighter disk came into large-scale use in the United States for the first time in the Civil War. The Federals' Chief Signal Officer paterned a version of it, very semilar to the original Indian disk, for use in flag signaling. Since his flag stations were within the view of Confederate signalines as often as not, he presented frequent changes of setting.

About a half-century later the U.S. Army adopted a simplefied version, very similar, to this device, in which one alphabet was "standard", and the other "reverse-standard". Although technically this was a step backward, there were compensating advantages since the regularity of the alphabets tended in reduce error. During the period of the First World War and for according years afterward, the Army issued the disk in this form in miss that needed a cipher which could be carried and used easily and which would give a few hours' protection to tacteral messages.

In using this device you could leave the two disks in the same serting for an unitar message, thus producing the samplest possible cryptogram. Or their selting could be changed with every letter of the message and, if the pattern of the serring-changes were complex enough, you would have an extremely secure appear.